

WHAT IS CLAIMED IS:

1. A color cathode ray tube comprising:  
a mask frame;  
5 a shadow mask fixed to the mask frame;  
an inner magnetic shield supported by the mask frame; and  
an electron shield provided in the mask frame;  
wherein at least a part of the electron shield has a smaller  
anhysteretic magnetic permeability than the shadow mask, the mask frame  
10 and the inner magnetic shield when an applied magnetic field is 800 A/m (10  
Oe).

2. The color cathode ray tube according to claim 1, wherein the electron  
shield is formed so as to elongate a front end portion on an electron beam  
15 side of the mask frame.

3. The color cathode ray tube according to claim 1, wherein the electron  
shield is formed of a member different from the mask frame so as to protrude  
beyond a front end portion on an electron beam side of the mask frame.  
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4. The color cathode ray tube according to claim 1, wherein a part of the  
electron shield has a region having a smaller anhysteretic magnetic  
permeability than another part when the applied magnetic field is 800 A/m  
(10 Oe).  
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5. A color cathode ray tube comprising:  
a mask frame;  
a shadow mask fixed to the mask frame;  
an inner magnetic shield supported by the mask frame; and  
30 an electron shield provided in the mask frame;  
wherein at least a part of the electron shield has a smaller  
anhysteretic magnetic permeability than the shadow mask, the mask frame  
and the inner magnetic shield when an applied magnetic field is 800 A/m (10  
Oe), and  
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the mask frame comprises a L-shaped member having a L-shaped  
cross-section and a reinforcing member connected with the L-shaped

member, and a part of the reinforcing member has a region having a smaller anhysteretic magnetic permeability than another part when the applied magnetic field is 800 A/m (10 Oe).

- 5    6.    A color cathode ray tube comprising:  
a mask frame;  
a shadow mask fixed to the mask frame;  
an inner magnetic shield supported by the mask frame; and  
an electron shield provided in the mask frame;
- 10       wherein at least a part of the electron shield has a smaller anhysteretic magnetic permeability than the shadow mask, the mask frame and the inner magnetic shield when an applied magnetic field is 800 A/m (10 Oe), and
- 15       when an electron beam scans a phosphor screen at 100 %, a minimum distance between the electron shield and a path of the electron beam is at least 8 mm.